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Madison

800.321.5193

Toll Free

563.203.0182

Cresco, IA

920.326.5209 Fax

January 28, 2014



P.O. Box 150 Randolph, WI 53956

Dave Johnson Wisconsin Department of Natural Resources Private Water Systems Section Bureau of Drinking Water and Ground Water 101 S Webster Street P.O. Box 7921 Madison, WI 53707-7921

RECEIVED-DNR JAN 3 0 2014 DRINKING WATER & GW

High Capacity Well Application for the A.F. Gelhar Company Inc., P.O. Box 126, Fairwater, Wisconsin, 53931, Town of Mackford, Green Lake County.

Dear Dave:

On behalf of Jim Gelhar owner of A.F.Gelhar Company Inc., Sam's Well Drilling, Inc., (SAMS) proposes to install an additional high-capacity well for the purpose of washing sand at a processing plant located at N2402 County Highway A, Markesan, Wisconsin. The enclosed application is for this well.

At this time, there are three other wells located on the property. Two of the wells are production wells for the plant and one well supplies the office. I have enclosed the Well Construction Reports for all of the wells with this correspondence. A.F. Gelhar Company, Inc., requires additional water as the amount of sand being processed has increased recently. The proposed wells will be located at the edge of the quarry. The A.F. Gelhar Company Inc., would like to have this well operational by June of 2014. If you have any questions regarding this project, please contact me at (920) 326-5193.

Sincerely,

SAM'S WELL DRILLING, INC.

Jeff Kramer, P.G.

Hydrogeologist

Agent authorized to submit this application on behalf of the property owner, Jim Gelhar of A.F. Gelhar Company Inc.

www.samswelldrilling.com

State of Wisconsin Department of Natural Resources Private Water Systems Section - DG/2 dnr.wi.gov

High Capacity, School or Wastewater Treatment Plant Well Approval Application

Form 3300-256 (R 7/05)

JAN 3 0 2014

Page 1 of 6

Notice: Prior department approval is required for the construction, reconstruction or operation of a high capacity well or system of their capacity wells, a school well or a wastewater treatment plant well in accordance with Section NR 812.09(4)(a), Wiscorisin Administrative Code. Personally identifiable information collected on this form, including such data as your name, address and phone number, will be used for management of department programs and is unlikely to be used for other purposes. This information will be addressable under Wisconsin's Open Records Laws, ss. 19.32 - 19.39, Wis. Stats.

Use this form to request an approval for installation of a well or wells on a high capacity property, seek approval to make other changes to a high capacity property or to modify a well on a high capacity property, as required by NR 812.09(4)(a), Wisconsin Administrative Code. Refer to definitions of high capacity well, high capacity property and high capacity well system on page 5.

This form is not intended to be used when seeking approval for construction or modification of wells serving water systems regulated under ch. NR 811, Wis. Adm. Code. Any water system serving 7 or more homes, 10 or more mobile homes, 10 or more apartments, 10 or more condominiums, or 10 or more duplexes is regulated under ch. NR 811, Wis. Adm. Code. See NR 811.01, Wis. Adm. Code for applicability requirements.

more adplexed to regulated dilact on: Titl	orr, mo. nam. oodo. occini	(011.01, 1110.71	am. code for app	noability requirem	onto.	
Applicant Information					STATEMENT OF	
Application Prepared By (Name and Title)		Company	Company			
JEFF KRAMER HYDROGEOLOGIST		SAM	3 WELL	DRILLING	5	
Street Address		City		Sta	te ZIP Code	
P.O. BOX 150		RANG	DOLDH	u	1 539	56
Telephone Number	Fax Number		E-Mail Address			
920-326-5193	920-326-5	209	JEFFICE	254m5a	EUDRI	KLINGA
Property Ownership Information			adria de la constante de la co	WINE STATE		
Property owner, if different than applican	t (Name of Person and Title)	Company				
JIM GELHAR /	CHUNER	A.F.	GELHAR	eco.IN	C,	
Street Address		City		Sta		
P.O. BOX 126		FAIR	WATER	a	534	13/
Telephone Number	Fax Number		E-Mail Address			
920-318-1027	920-398-3	567				
Well Operator Information						
Well operator if different than owner (Na	me of Person and Title)	Company				
TOM PETHICE CA	ERATIONS MANA	SER A	F. GELH	AR CO. 3	INC.	
Street Address		City		Sta	te ZIP Code	
NZAGZ COUNTY H	ICHWAY A	MAR	KESAN	le	1 539	46
Telephone Number	Fax Number		E-Mail Address	· · · · · · · · · · · · · · · · · · ·		
920-398-1027	920-398-3	567	TOMAFE	ELHARA	CMAIL.	Com
Property Information						
Enter the High Capacity Well File Number property at the time of application, enter "I	NONE." NOTE: Find the file nu	ımber in upper ri	ight hand corner o	of the most recent	high capacity	well approval,
or use the compact disk of departmental v "Location" section. File number format is a						
County	Town			Capacity Well F		
CREEN LAKE	MACKFO	RD				
Submittal Purpose		Mary III				The All You
Check all that apply:				***************************************		
Install one or more new wells wit	h a capacity greater than 70	gallons per m	ninute.			
Install one or more new wells wit	h a capacity less than 70 ga	allons per minu	ite on a high cap	pacity property.		
Replace one or more wells with a	a capacity greater than 70 g	allons per min	ute.			
Replace one or more wells with a	a capacity less than 70 gallo	ons per minute	on a high capa	city property.		
Reconstruct one or more wells with a capacity greater than 70 gallons per minute.						
Reconstruct one or more wells w	ith a capacity less than 70 g	gallons per mir	nute on a high c	apacity property		
Increase pumping rate in one or	more wells to a rate greater	than previous	ly approved.			
Request continued operation of h	nigh capacity wells after a cl	hange in owne	rship. (No appl	ication fee requi	red.)	
Renew a previous approval that	has expired.			•		
Well (or wells) will serve a schoo		lant. See defir	nitions on page	5.		
Other, explain			\$ 170			

Site St	latι	is Information	
and the	e in	the site status using the internet or the compact disk of departmental well data that formation supplied by the property owner. Internet address is dnr.wi.gov/org/water/dowing questions.	
YES !	NO X	Has the property boundary changed since the most recent high capacity well approved a high capacity property, check NO.	val was issued? If the property is not
	×	Has there been a change in well ownership since the last approval was written? If YES, name of current owner:	Date of purchase:

Ш	M	yet a high capacity property, check NO.			
	X	Has there been a change in well ownership since the last approval was written? If YES, name of current owner: Date of purchase:			
	×	Has there been a change in well operator since the last approval was written? If YES, name of current operator: Date of change:			
	区	Will a proposed well be connected to a plumbing system that is supplied by other sources (other wells, municipal supply, etc.)? If YES, include a schematic drawing showing backflow protection.			
	×	Is a proposed well within 1,200 feet of a landfill? Determine if there are any landfills nearby, using the well information compact disk FIND feature. Enter the township, range and section of the well location. If the well is near a section line, also check the adjacent section or sections. If YES, list the landfill site ID Number: OR Landfill location: (Township/Range/Section)			
	X	Is a proposed well on a property that has a contaminated site? If YES, list the BRRTS (Bureau for Remediation and Redevelopment Tracking System) Number here and specify if the site is open or closed:	d		
	X	Is a proposed well on a property that has a groundwater use restriction recorded on the deed? If YES, list the BRRTS number, as assigned to the contaminated site by the DNR remediation and redevelopment program:			
	×	Is a proposed well on a property that is listed on the department's registry of closed remediation sites for a groundwater us restriction? See compact disk or internet at maps.dnr.state.wi.us/imf/dnrimf.jsp?site=brrts . If YES, list the BRRTS Numbe here:	use er		
	X	Is a proposed well to be used for a public water supply system that serves 25 or more people? See definition of a "public water system" in the definitions section on page 5.	:		
	×	Is a proposed well to be installed within a special casing area? Refer to the list of special casing areas that is published by the department and/or contact the regional DNR office.			
	X	Has the number of wells or pumping capacity in an existing well increased since the most recent high capacity well approval was issued?			
	\boxtimes	Has the number of wells decreased since the most recent high capacity well approval? If the property is not yet a high capacity property, check NO.			
	×	Is a non-pressurized storage vessel (i.e. reservoir) other than a pond proposed or in use?			
	X	Will the well discharge directly to a storage pond?			
	X	Is a pressurized tank with a capacity greater than 1,000 gallons proposed or in use?			
	X	Is a proposed well within 1,200 feet of a quarry?			
	×	Is a proposed well located in a floodplain or floodway?			
	×	Are any existing well installations on the high capacity property out of compliance with Chapter NR 812, Wisconsin Administrative Code?			
	X	Will the well be used as a source of bottled water?			
	X	Are you seeking a variance to construct a well that has a capacity of less than 70 gallons per minute to low capacity well construction standards?			
	X	Is the property served by a community water system?			

Existing Well Information				
Enter the following information on	all existing wells on the p	property, if more than four	wells, submit additional s	heets:
Well Name Assigned by Well Owner (North Well, etc.):	SOUTH WELL	OFFICE WELL	WORTH WELL	
Well Number Assigned by Owner (001, 002, etc.):	001	€ 0.5	∞ 3	
Wi Unique Well Number or NA if no number:	B\$537	NA	MY174	
Permanent DNR High Capacity Well Number or N/A if none:	48012	NA	·2387	
Public Water System ID Number, if Public (if not public, NONE):	NOVE	NOWE	NONE	
Potable or Non-Potable Use:	POTABLE	POTABLE	POTATRE	
Type of Well (Irrigation, Industrial, Residential, etc.):	INDUSTRIAL	OFFICE	INDUSTRIAL	
Requested Average Water Usage per Day in Gallons:	461,000	500	461,000	
Requested Maximum Water Usage per Day in Gallons:	461,000	1000	461.000	
Seasonal? (April to October, Year Around, etc.):	YEAR ROOMS	YEAR ROWN	YEAR ROWD	
Approved Pumping Capacity if Previously Approved (gpm):	320	15	320	
Current Pump Type & Capacity (gpm):	SUBVERSIBLE 3	SUSWERSIBLE IS	SUBMERSIBLE!	3E0
Proposed Pump Type & Capacity If Change Requested (gpm):	NA	NA	MA	
Pump Discharge Type (Over Top of Casing Seal, Pitless, etc.):	CUERTOPOFCAGI	PITLESS 6 ACAPTER	OVERTOR OF CASING	
Discharge Location (Building Pressure Tank, Pond, etc.):	WASH PONDS	BUILDING DRESOURE TANK	WASH PONDS	
Height of Well Casing Above Ground In Inches:	24,0	120	12,0	
Potential Contaminant Sources and Distance:				
Well Loc: Quarter Quarter Section	NW 1/4 ONE 1/4	NW 1/4 ONE 1/4	NW 1/4 of NE 1/4	1/4 of 1/4
or Government Lot Number				
Section or French Long Lot No.	3	3	3	
Township:	T 14 N	T 14 N	T 14 N	T N
Range (Select E or W):	R 13 NE OW			
Latitude (Degrees and Minutes)	43.42.992	43.43025	43 • 43.035	0 +
	008.56.083		088·43.067	0 I
GPS Map Datum (WGS84,	GP5008	(000 00000	6P500B	
WTM91, etc.) Include as much of the following inform		nat do not have well construc		annlication, however if the
well construction record is attached, a	oplicant may leave the follow	ing rows blank.		**************************************
Date of Construction:	6 28 86	8/7/87	4/26/99	AM
Drilled by (Name of Drilling Firm):	POECUNER	ZŒUNER	CENTRAL	
Drilling Method(s) (Rotary, Percussion, Etc.)	ROTARY	COTARY	ROTARY	
Well Depth in Feet:	375.01	239,01	412.0'	
Upper Enlarged Drillhole Diameter in Inches and Depth in Feet:	12,25 83,0 feet	inches, feet	/2.0 /43,0 inches, feet	inches, feet
Lower Drillhole Diameter in Inches and Depth in Feet:	80 375,0 inches, feet		8.0 412.0 Inches, feet	inches, feet
Well Casing Diameter in Inches and Depth in Feet:	SO 83.0 feet	6.0 63.0 feet	60 143,0 inches, feet	inches, feet
Well Casing Material and Wall Thickness:	STEEL 1,250	STEEL 1.780	STEEL 1.322	
Annular Space Material Between Casing and Drillhole Wall:	NEAT CEMENT	NEAT CEMENT	NEAT CEMENT	
Is There a Well Screen (Y or N) If so,	N	N	\sim	

Proposed Well Information			
Enter the following information on all	proposed wells on the property, if more than two wells	or alternate construction	on, submit additional sheets:
Well Name Assigned by Well Owner (North Well, etc.):	POND WELL		
Well Number Assigned by Owner (001, 002, etc.):	004		
Well Loc: Quarter Quarter Section or French Long Lot Number	NW 1/4 of NE 1/4 of Section 03	1/4 of	1/4 of Section
or Government Lot Number			
Township & Range (Select E or W)		T N,	R DE DW
Latitude (Degrees and Minutes)	43 • 09.360 •	<u> </u>	· ·
Longitude (Degrees and Minutes)	089 . 56112 .		, <u></u>
GPS Map Datum (WGS84, WTM91, etc.)	GP5608		
Type of Well (Irrigation, Industrial, Residential, etc.):	Type: TNOUSTRIAL Non-Potable	Туре:	Potable Non-Potable
Drilling Method(s) (Rotary, Percussion, Etc.):	ROTARY		
Anticipated Geological Materials and E	Depths that Are Expected During Drilling:		
Material and Depth Interval:	CCAY from 0' to 4	LIMESTONE	from 134' to 175'
Material and Depth Interval:	CCA4+ GRAVELITOM 4. to 15]	SHALE	from 175 · to 177 ·
Material and Depth Interval:	JANDSTONE from 15 to 100/	SAUSTONE	from 177 to 500 .
Material and Depth Interval:	SAMPSICNE + SHAKETOM 100 to 110/		from ' to '
Material and Depth Interval:	CIMESTONE+SHAUGEOM 110 to 134 .		from ' to '
Drillhole Diameter and Anticipated Dep	oth Intervals:		
Diameter and Depth Interval:	17.0 from 6 to 160 .		from ' to '
Diameter and Depth Interval:	12.0 from 160 to 500 to		from ' to '
Diameter and Depth Interval:	from ' to '		from to
	nd Wall Thickness at Anticipated Depth Intervals:		
Diameter and Wall Thickness at Depth Interval:	12.0 "diam/,375" thick 0' to 160.	" diam/	" thick 0 ' to '
Diameter and Wall Thickness at Depth Interval:	" diam/ " thick ' to '	" diam/	" thick ' to '
Permanent Casing or Liner Material, I	f Used:		
Casing Joints (Welded, T and C, etc.)	WELDED		
Material and Weight at Depth Interval:	STERL 149.56 O' to 160.	<u>1</u>	lbs/foot 0 to '
Material and Weight at Depth Interval:	/ lbs/foot to	<u></u>	lbs/foot ' to '
Screen Material, Slot Size in Inches and Depth Interval or N/A if none:	'WA , ", to .		"/ ' to "
Casing to Screen Joint (Welded, T	NA		
and C, K Packer, etc.) Annular Space Material Including Filte			
Material and Depth Interval:	NEAT CEMENT 1 0' to 160.		/ 0' to '
Material and Depth Interval:	/ ' to '		/ ' to '
Proposed Average Water Usage Per Day in Gallons:	432000 (300Gm)		
Proposed Maximum Water Usage Per Day in Gallons:	BEA,000 (600 6PM)		
Seasonal? (April to October, Year Around, etc.):	YEAR ROWD		
Proposed Pump Type & Capacity (gpm):	SUBMERSIBLE/ 600 GPM		
Discharge Type (Over Top of Casing Seal, Pitless Adapter or Unit):	OVERTOP OF CASING		
Discharge Location (Building Pressure Tank, Pond, etc.):	HOND		
Distance and Direction to Nearest Public Utility Well & Well Name:	PIVER DISTRIBUTION BESSE		
Distance to Other Potential	MACKED CANDELL.		
Contaminant Sources: Distance to Other Potential Contaminant Sources:	THE GET CHIMITICS		
Leave Blank, for Department use only			-

Required Attachments

- Attach one of the maps described in A. or B., below. Plot the existing and proposed well locations on the map. For wells that have a Wisconsin Unique Well Number or a Permanent High Capacity Well Number, plot the well locations with one of those numbers.
 - A. Copy of a plat map with the property boundary clearly shown. If the property is contiguous with properties owned by the same owner in another township, include a copy of that township map too, showing the property boundaries. If the property owner listed on the plat map is different from the current owner, list the date or dates, that the current property owner purchased the property on the map.
 - B. Map of the property prepared by a licensed land surveyor and the property description as described by the surveyor.
- 2. Sketch map showing all of the following that are planned or exist within 300 feet of each proposed well: proposed well location; other wells; property boundary; wetlands; potential contaminant sources (septic tank and drainfield, petroleum storage tanks, sewer lines, etc.); buildings and north arrow. If no pertinent features to map within 300 feet of the proposed well, for example an irrigation well in the middle of a field, state that on the property map listed above and plot the well locations on that map.
- 3. Any well construction records available for existing wells on the property. Do not attach any well construction records for wells that are not on the property. If a Wisconsin Unique Well Number has not been assigned, write a well name or site well number on the record that correlates to the well name or number plotted on the maps.
- 4. For proposed wells with a capacity greater than 400 gallons per minute, include the performance curve or performance table that is provided by the pump manufacturer. If the pump will be a lineshaft turbine, provide a curve with the same rpm as the motor under full load and list the motor horsepower.
- 5. If more than one well is connected to a common plumbing system, also provide a schematic drawing of the system showing method of preventing backflow. This sketch must include the well discharge (pitless, over top of casing sanitary seal); the water line from the well; pressure tanks; sampling faucets; check valves; backflow preventers; air gaps; manually operated valves; water meters; pressure switches for pumps; and any other pertinent fittings. This schematic drawing must also identify which of these components are buried or above ground. If there is more than one check valve within the well casing, include in-well check valves on the schematic.
- If reconstruction of an existing well is proposed, include a diagram of the current well construction and a diagram of the proposed construction.
- If the application is for a high capacity well or wells, a \$500.00 check payable to the Department of Natural Resources, unless the application is only for continued operation after a change of ownership.

Certification and Applicant Signatures

If the application requests a variance for a well within 1,200 feet of a landfill, a well on a property with a groundwater use restriction, or any other variance to NR 812, Wis. Adm. Code, the property owner must sign the application. If the well operator will install a well on property that he or she does not own, the property owner must also sign the application. Otherwise, an agent of the owner may sign the application.

Unsigned and incomplete applications will not be approved.

By signing this form, the person signing this application certifies that to the best of his or her knowledge, all existing well installations on the property comply with ch. NR 812, Wis. Adm. Code. The person also certifies that to the best of his or her knowledge, all information in the application is accurate and correct.

Name - Print	Check Box		
JEFF KRAMER	Owner	Agent of the Owner	
Signature Homes	SAM'S WELL DRILLING	Date //28/14	
Application submittal. Mail completed application and p Section - DG/2, PO Box 7921, Madison WI 53707-792	payment with all required attachments to DNR, Pri	vate Water Systems	
Definitions from Wisconsin Administrative Codes			

"High capacity well system" means one or more wells, drillholes or mine shafts used or to be used to withdraw water for any purpose on one property, if the total pumping or flowing capacity of all wells, drillholes or mine shafts on one property is 70 or more gallons per minute based on the pump curve at the lowest system pressure setting, or based on the flow rate. [NR 812.07(53)]

"Public water system" means a system for the provision to the public of piped water for human consumptions if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year. A public water system is either a community water system or a non-community water system. Such system includes: (a) Any collection, treatment, storage, and distribution facilities under control of the operator of such system and used primarily in connection with such system, and (b) Any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system. [NR 812.07(80)]

"School" means a public or private educational facility in which a program of educational instruction is provided to children in any grade or grades from kindergarten through the 12th grade. Water systems serving athletic fields, school forests, environmental centers, home-based schools, day-care centers and Sunday schools are not school water systems. [NR 812.07(94)]

"Wastewater treatment plant" means any facility provided for the treatment of sanitary or industrial wastewater or both. The following types of facilities are excluded: (a) Facilities defined as private sewage systems in s. 145.01(12), Stats. (b) Pretreatment facilities from which effluent is directed to a public sewer system for treatment. (c) Industrial wastewater treatment facilities which consist solely of a land disposal system. [NR 114.03(14)]

[&]quot;High capacity well" means a well constructed on a high capacity property. [NR 812.07(51)]

[&]quot;High capacity property" means one property on which a high capacity well system exists or is to be constructed. [NR 812.07(52)]

MACKFORD

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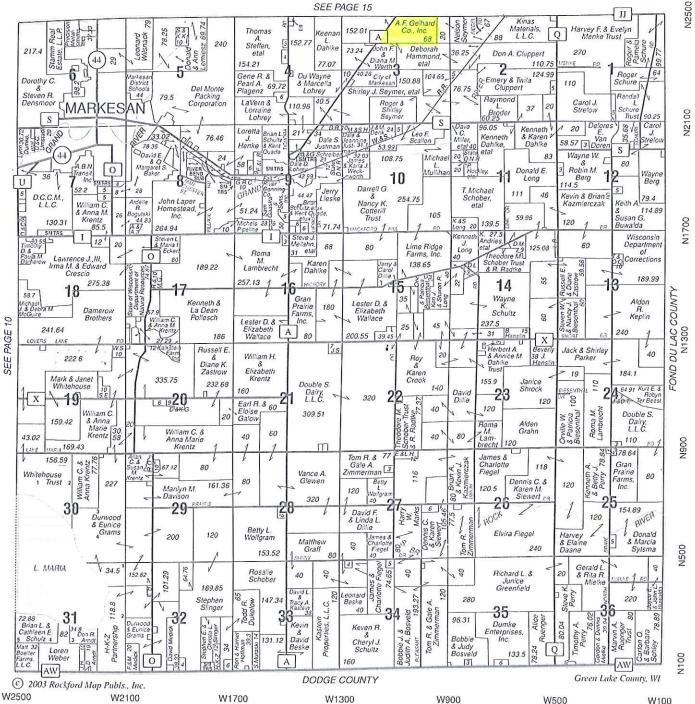
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SLATE LAW OFFICES

LIVING TRUSTS • REAL ESTATE BUSINESS PLANNING • PROBATE 33 North Bridge Street • Markesan, WI 53946 (920) 398-2371

SLATE TAX SERVICE

Personal & Business Taxes

(920) 398-2371

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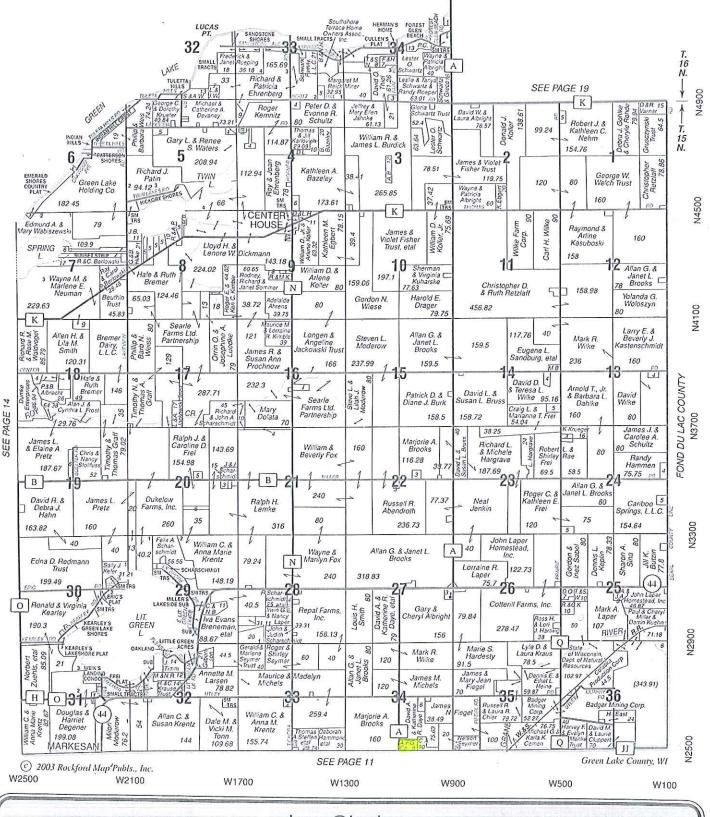
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Jay Clarke, Real Estate Auctioneer and Appraiser

P.O. Box 477 • Ripon, WI 54971-0477

Phone: 920-748-9444 • Fax: 920-748-7844

www.clarkeandassociates.com